

**TDMS No.** 97008 - 05  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F 344

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
PROPARGYL ALCOHOL  
**CAS Number:** 107-19-7  
**Pathologist:** HARBO, S. - LIEUALLEN, W.  
F1\_R2

**Date Report Reqsted:** 08/09/2006  
**Time Report Reqsted:** 14:01:40  
**First Dose M/F:** 10/01/01 / 10/01/01  
**Lab:** BNW

**C Number:** C97008

**Lock Date:** 08/16/2004

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** 25021 TSAC 25020 NATD 25019 MSAC

**Removal Date Range:** ALL

**Treatment Groups:** Include ALL

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Lab: BNW

FISCHER 344 RATS MALE	CONTROL	16 PPM	32 PPM	64 PPM
<b>Disposition Summary</b>				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	20	19	26	30
Natural Death	2	8	9	4
Survivors				
Moribund Sacrifice	1			
Terminal Sacrifice	26	23	15	16
Animals Examined Microscopically	49	50	50	50
<b>ALIMENTARY SYSTEM</b>				
Intestine Large, Colon	(47)	(46)	(45)	(49)
Artery, Inflammation, Chronic Active	1 (2%)			
Intestine Large, Rectum	(47)	(47)	(46)	(50)
Edema	1 (2%)			
Inflammation, Suppurative	1 (2%)			
Intestine Small, Jejunum	(46)	(45)	(45)	(48)
Liver	(49)	(50)	(50)	(50)
Angiectasis	1 (2%)	3 (6%)		
Basophilic Focus	7 (14%)	18 (36%)	15 (30%)	4 (8%)
Clear Cell Focus	10 (20%)	13 (26%)	9 (18%)	4 (8%)
Degeneration, Cystic	3 (6%)	1 (2%)	1 (2%)	2 (4%)
Eosinophilic Focus	2 (4%)	4 (8%)	2 (4%)	5 (10%)
Hematopoietic Cell Proliferation	1 (2%)	1 (2%)	1 (2%)	
Hemorrhage			1 (2%)	
Hepatodiaphragmatic Nodule		5 (10%)	2 (4%)	1 (2%)
Inflammation, Granulomatous			1 (2%)	
Inflammation, Chronic Active	1 (2%)		1 (2%)	
Mixed Cell Focus	2 (4%)	4 (8%)	5 (10%)	3 (6%)
Necrosis	1 (2%)	2 (4%)	2 (4%)	2 (4%)
Vacuolization Cytoplasmic	7 (14%)	5 (10%)	3 (6%)	3 (6%)
Centrilobular, Degeneration	1 (2%)			1 (2%)
Hepatocyte, Regeneration				2 (4%)
Mesentery	(11)	(14)	(7)	(3)
Necrosis	10 (91%)	14 (100%)	7 (100%)	2 (67%)
Thrombosis				1 (33%)
Artery, Inflammation, Chronic Active	1 (9%)			

a - Number of animals examined microscopically at site and number of animals with lesion

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FISCHER 344 RATS MALE	CONTROL	16 PPM	32 PPM	64 PPM
Oral Mucosa	(0)	(1)	(1)	(0)
Pancreas	(49)	(50)	(50)	(50)
Acinus, Atrophy	24 (49%)	21 (42%)	22 (44%)	26 (52%)
Acinus, Hyperplasia	3 (6%)	1 (2%)	1 (2%)	1 (2%)
Duct, Necrosis			1 (2%)	
Salivary Glands	(49)	(50)	(50)	(50)
Stomach, Forestomach	(49)	(50)	(50)	(50)
Edema	1 (2%)			
Erosion		1 (2%)		1 (2%)
Hyperplasia, Squamous		3 (6%)	3 (6%)	
Inflammation, Chronic			1 (2%)	
Ulcer	4 (8%)	3 (6%)	3 (6%)	2 (4%)
Stomach, Glandular	(49)	(50)	(50)	(50)
Erosion	4 (8%)	2 (4%)	5 (10%)	3 (6%)
Ulcer	5 (10%)		1 (2%)	4 (8%)
Tongue	(1)	(0)	(2)	(1)
CARDIOVASCULAR SYSTEM				
Heart	(49)	(50)	(50)	(50)
Cardiomyopathy	44 (90%)	44 (88%)	44 (88%)	43 (86%)
Atrium, Thrombosis	3 (6%)	6 (12%)	8 (16%)	5 (10%)
ENDOCRINE SYSTEM				
Adrenal Cortex	(49)	(50)	(50)	(50)
Degeneration, Cystic	1 (2%)			
Hematopoietic Cell Proliferation	1 (2%)			
Hyperplasia	19 (39%)	23 (46%)	27 (54%)	28 (56%)
Hypertrophy	1 (2%)			
Thrombosis			1 (2%)	
Vacuolization Cytoplasmic	11 (22%)	8 (16%)	9 (18%)	7 (14%)
Subcapsular, Hyperplasia	1 (2%)			
Adrenal Medulla	(49)	(50)	(50)	(50)
Hyperplasia	15 (31%)	19 (38%)	21 (42%)	18 (36%)
Infiltration Cellular, Lymphocyte	1 (2%)			
Islets, Pancreatic	(49)	(50)	(50)	(50)
Hyperplasia	1 (2%)	5 (10%)	1 (2%)	1 (2%)
Parathyroid Gland	(47)	(44)	(49)	(50)
Hyperplasia		2 (5%)		

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FISCHER 344 RATS MALE	CONTROL	16 PPM	32 PPM	64 PPM
Pituitary Gland	(49)	(50)	(50)	(50)
Hemorrhage		1 (2%)	3 (6%)	
Pars Distalis, Hyperplasia	8 (16%)	6 (12%)	6 (12%)	13 (26%)
Pars Intermedia, Cyst				1 (2%)
Thyroid Gland	(49)	(50)	(50)	(50)
Cyst		1 (2%)		
C-cell, Hyperplasia	8 (16%)	6 (12%)	15 (30%)	12 (24%)
Follicular Cell, Hyperplasia		1 (2%)		1 (2%)
GENERAL BODY SYSTEM				
Peritoneum	(1)	(0)	(0)	(0)
Tissue NOS	(1)	(0)	(0)	(0)
GENITAL SYSTEM				
Coagulating Gland	(0)	(0)	(1)	(0)
Inflammation, Suppurative			1 (100%)	
Epididymis	(49)	(50)	(50)	(50)
Penis	(0)	(0)	(0)	(1)
Inflammation, Suppurative				1 (100%)
Preputial Gland	(49)	(49)	(50)	(49)
Cyst			1 (2%)	
Hyperplasia				2 (4%)
Inflammation, Chronic Active	18 (37%)	12 (24%)	11 (22%)	12 (24%)
Necrosis				1 (2%)
Prostate	(49)	(50)	(50)	(50)
Hyperplasia	9 (18%)	2 (4%)	10 (20%)	8 (16%)
Inflammation, Suppurative	31 (63%)	41 (82%)	36 (72%)	34 (68%)
Inflammation, Chronic Active	4 (8%)		1 (2%)	2 (4%)
Seminal Vesicle	(49)	(50)	(50)	(50)
Hyperplasia	1 (2%)			
Testes	(49)	(50)	(50)	(50)
Germinal Epithelium, Atrophy	6 (12%)	3 (6%)	3 (6%)	4 (8%)
Interstitial Cell, Hyperplasia	4 (8%)	4 (8%)	7 (14%)	5 (10%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(49)	(50)	(50)	(50)
Myelofibrosis		1 (2%)		

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Erythroid Cell, Hyperplasia		1 (2%)	2 (4%)	1 (2%)
Lymph Node	(5)	(3)	(7)	(8)
Deep Cervical, Hemorrhage	1 (20%)	1 (33%)	1 (14%)	
Deep Cervical, Hyperplasia, Lymphoid	1 (20%)			
Pancreatic, Angiectasis	2 (40%)			2 (25%)
Pancreatic, Infiltration Cellular, Histiocyte			1 (14%)	
Lymph Node, Bronchial	(6)	(4)	(8)	(7)
Angiectasis	1 (17%)		2 (25%)	
Hemorrhage			1 (13%)	
Hyperplasia, Lymphoid	1 (17%)	2 (50%)	1 (13%)	
Lymph Node, Mandibular	(0)	(1)	(1)	(0)
Hyperplasia, Lymphoid		1 (100%)		
Lymph Node, Mediastinal	(24)	(24)	(24)	(26)
Angiectasis		1 (4%)		
Hemorrhage		1 (4%)		
Hyperplasia, Lymphoid	3 (13%)	1 (4%)	3 (13%)	2 (8%)
Infiltration Cellular, Histiocyte	1 (4%)			
Inflammation, Chronic Active		1 (4%)		
Lymph Node, Mesenteric	(49)	(50)	(50)	(49)
Angiectasis	1 (2%)			
Ectasia	1 (2%)			
Hemorrhage	1 (2%)			
Hyperplasia, Lymphoid	1 (2%)		2 (4%)	
Infiltration Cellular, Histiocyte	9 (18%)	5 (10%)	5 (10%)	3 (6%)
Spleen	(49)	(50)	(49)	(49)
Angiectasis			1 (2%)	
Hematopoietic Cell Proliferation	8 (16%)	10 (20%)	5 (10%)	8 (16%)
Hemorrhage			1 (2%)	
Hemorrhage, Chronic	1 (2%)	3 (6%)	2 (4%)	
Hyperplasia, Lymphoid, Focal	1 (2%)			
Hyperplasia, Lymphoid			2 (4%)	
Infarct			1 (2%)	
Thymus	(47)	(43)	(46)	(45)
Cyst				1 (2%)
INTEGUMENTARY SYSTEM				
Mammary Gland	(30)	(29)	(28)	(34)
Galactoceles		1 (3%)	1 (4%)	3 (9%)
Inflammation, Suppurative	1 (3%)			
Skin	(49)	(50)	(50)	(50)

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FISCHER 344 RATS MALE	CONTROL	16 PPM	32 PPM	64 PPM
Cyst Epithelial Inclusion	2 (4%)		3 (6%)	
Ulcer	5 (10%)	1 (2%)	2 (4%)	1 (2%)
Subcutaneous Tissue, Fibrosis	1 (2%)			
Subcutaneous Tissue, Inflammation	1 (2%)			
MUSCULOSKELETAL SYSTEM				
Bone	(49)	(50)	(50)	(50)
Hyperostosis		1 (2%)	1 (2%)	
NERVOUS SYSTEM				
Brain	(49)	(50)	(50)	(50)
Compression	10 (20%)	9 (18%)	18 (36%)	9 (18%)
Hemorrhage		1 (2%)	3 (6%)	2 (4%)
Necrosis	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Thrombosis				1 (2%)
RESPIRATORY SYSTEM				
Larynx	(48)	(50)	(50)	(50)
Foreign Body	2 (4%)	3 (6%)	1 (2%)	
Inflammation, Chronic Active	3 (6%)			
Metaplasia, Squamous	1 (2%)		1 (2%)	
Lung	(49)	(50)	(50)	(50)
Foreign Body	1 (2%)			
Hemorrhage		1 (2%)	3 (6%)	2 (4%)
Inflammation		1 (2%)		2 (4%)
Thrombosis			1 (2%)	1 (2%)
Alveolar Epithelium, Hyperplasia	8 (16%)	12 (24%)	11 (22%)	7 (14%)
Alveolar Epithelium, Metaplasia, Squamous	2 (4%)	1 (2%)		1 (2%)
Alveolus, Infiltration Cellular, Histiocyte	4 (8%)	1 (2%)		1 (2%)
Nose	(49)	(49)	(50)	(49)
Foreign Body	7 (14%)	8 (16%)	6 (12%)	8 (16%)
Hemorrhage				1 (2%)
Inflammation, Suppurative	1 (2%)	1 (2%)		
Inflammation, Chronic Active	9 (18%)	12 (24%)	22 (44%)	28 (57%)
Glands, Olfactory Epithelium, Hyperplasia				4 (8%)
Glands, Respiratory Epithelium, Hyperplasia	3 (6%)	14 (29%)	39 (78%)	45 (92%)
Olfactory Epithelium, Accumulation, Hyaline		5 (10%)	4 (8%)	7 (14%)

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FISCHER 344 RATS MALE	CONTROL	16 PPM	32 PPM	64 PPM
Droplet				
Olfactory Epithelium, Atrophy	1 (2%)	21 (43%)	26 (52%)	26 (53%)
Olfactory Epithelium, Degeneration			1 (2%)	7 (14%)
Olfactory Epithelium, Hyperplasia		1 (2%)	3 (6%)	5 (10%)
Olfactory Epithelium, Hyperplasia, Basal Cell		19 (39%)	42 (84%)	42 (86%)
Olfactory Epithelium, Metaplasia, Respiratory	1 (2%)	10 (20%)	18 (36%)	29 (59%)
Olfactory Epithelium, Necrosis			2 (4%)	6 (12%)
Respiratory Epithelium, Hyperplasia	5 (10%)	21 (43%)	44 (88%)	42 (86%)
Respiratory Epithelium, Metaplasia, Squamous	2 (4%)	2 (4%)	2 (4%)	4 (8%)
Pleura	(0)	(1)	(0)	(0)
SPECIAL SENSES SYSTEM				
Ear	(1)	(0)	(0)	(0)
Eye	(49)	(50)	(50)	(50)
Inflammation, Chronic Active			1 (2%)	
Cornea, Mineralization	1 (2%)			
Lens, Cataract	1 (2%)	3 (6%)	2 (4%)	
Zymbal's Gland	(0)	(1)	(0)	(0)
URINARY SYSTEM				
Kidney	(49)	(50)	(50)	(50)
Cyst	1 (2%)	2 (4%)	3 (6%)	2 (4%)
Infarct	1 (2%)	1 (2%)	2 (4%)	
Inflammation, Suppurative	1 (2%)	2 (4%)	2 (4%)	1 (2%)
Nephropathy, Chronic	42 (86%)	47 (94%)	48 (96%)	48 (96%)
Transitional Epithelium, Infarct			1 (2%)	
Urinary Bladder	(49)	(50)	(50)	(50)
Edema				1 (2%)
Inflammation, Chronic	1 (2%)		1 (2%)	
Transitional Epithelium, Hyperplasia	1 (2%)			

\*\*\* END OF MALE \*\*\*

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FISCHER 344 RATS FEMALE	CONTROL	16 PPM	32 PPM	64 PPM
<b>Disposition Summary</b>				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	18	16	19	19
Natural Death	3	3	4	5
Survivors				
Natural Death		1		
Terminal Sacrifice	29	30	27	26
Animals Examined Microscopically	50	50	50	50
<b>ALIMENTARY SYSTEM</b>				
Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(48)	(48)	(47)	(46)
Ulcer		1 (2%)		
Serosa, Inflammation	1 (2%)			
Intestine Large, Colon	(48)	(48)	(47)	(47)
Serosa, Inflammation	1 (2%)			
Intestine Small, Duodenum	(49)	(50)	(48)	(47)
Serosa, Inflammation	1 (2%)			
Intestine Small, Ileum	(48)	(48)	(46)	(46)
Intestine Small, Jejunum	(48)	(48)	(47)	(46)
Liver	(50)	(50)	(50)	(50)
Angiectasis		4 (8%)	1 (2%)	1 (2%)
Basophilic Focus	37 (74%)	36 (72%)	40 (80%)	31 (62%)
Clear Cell Focus	6 (12%)	6 (12%)	7 (14%)	7 (14%)
Eosinophilic Focus		2 (4%)	3 (6%)	3 (6%)
Fibrosis	1 (2%)			
Hepatodiaphragmatic Nodule	3 (6%)	2 (4%)	5 (10%)	2 (4%)
Inflammation, Granulomatous	1 (2%)			
Inflammation, Chronic Active	1 (2%)		2 (4%)	1 (2%)
Mixed Cell Focus	5 (10%)	4 (8%)	4 (8%)	12 (24%)
Necrosis		1 (2%)		2 (4%)
Vacuolization Cytoplasmic	8 (16%)	3 (6%)	3 (6%)	4 (8%)
Centrilobular, Necrosis	1 (2%)			1 (2%)
Oval Cell, Hyperplasia				1 (2%)
Mesentery	(13)	(12)	(10)	(9)
Necrosis	13 (100%)	12 (100%)	10 (100%)	9 (100%)

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FISCHER 344 RATS FEMALE	CONTROL	16 PPM	32 PPM	64 PPM
Oral Mucosa	(1)	(0)	(2)	(1)
Foreign Body	1 (100%)		1 (50%)	
Ulcer			1 (50%)	
Pancreas	(50)	(50)	(50)	(50)
Inflammation	1 (2%)			
Acinus, Atrophy	6 (12%)	9 (18%)	11 (22%)	14 (28%)
Acinus, Inflammation, Chronic				1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Necrosis				1 (2%)
Ulcer	3 (6%)	5 (10%)	1 (2%)	2 (4%)
Epithelium, Hyperplasia	1 (2%)	1 (2%)		1 (2%)
Serosa, Inflammation	1 (2%)			
Stomach, Glandular	(49)	(50)	(50)	(48)
Erosion	3 (6%)	1 (2%)	1 (2%)	3 (6%)
Ulcer	1 (2%)		1 (2%)	1 (2%)
Serosa, Inflammation	1 (2%)			
Tongue	(0)	(0)	(2)	(1)
Inflammation, Granulomatous, Chronic				1 (100%)
Active				
Epithelium, Hyperplasia			1 (50%)	
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	43 (86%)	45 (90%)	42 (84%)	42 (84%)
Atrium, Thrombosis	2 (4%)		2 (4%)	4 (8%)
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Angiectasis	3 (6%)			
Degeneration, Cystic			1 (2%)	2 (4%)
Hemorrhage				1 (2%)
Hyperplasia	28 (56%)	23 (46%)	22 (44%)	21 (42%)
Necrosis	1 (2%)	1 (2%)		
Vacuolization Cytoplasmic	3 (6%)	3 (6%)	1 (2%)	4 (8%)
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	5 (10%)	7 (14%)	3 (6%)	2 (4%)
Necrosis	1 (2%)			

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FISCHER 344 RATS FEMALE	CONTROL	16 PPM	32 PPM	64 PPM
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	1 (2%)	4 (8%)	4 (8%)	
Parathyroid Gland	(49)	(47)	(50)	(47)
Pituitary Gland	(50)	(50)	(50)	(50)
Hemorrhage	1 (2%)	5 (10%)	2 (4%)	3 (6%)
Pars Distalis, Cyst	4 (8%)	2 (4%)	3 (6%)	
Pars Distalis, Hyperplasia	11 (22%)	5 (10%)	6 (12%)	9 (18%)
Thyroid Gland	(50)	(50)	(50)	(50)
C-cell, Hyperplasia	21 (42%)	16 (32%)	18 (36%)	18 (36%)
GENERAL BODY SYSTEM				
Tissue NOS	(1)	(0)	(1)	(0)
Fat, Inflammation, Chronic	1 (100%)			
GENITAL SYSTEM				
Clitoral Gland	(50)	(49)	(49)	(47)
Cyst	1 (2%)		1 (2%)	
Hyperplasia	4 (8%)	4 (8%)	4 (8%)	5 (11%)
Inflammation, Suppurative			1 (2%)	1 (2%)
Inflammation, Chronic Active	8 (16%)	4 (8%)	9 (18%)	5 (11%)
Ovary	(50)	(50)	(50)	(50)
Cyst	6 (12%)	5 (10%)	6 (12%)	8 (16%)
Inflammation	1 (2%)			
Interstitial Cell, Hyperplasia	5 (10%)	8 (16%)	3 (6%)	6 (12%)
Uterus	(50)	(50)	(50)	(50)
Angiectasis			1 (2%)	
Cyst			1 (2%)	
Decidual Reaction			1 (2%)	
Dilatation			1 (2%)	
Fibrosis	1 (2%)	1 (2%)		1 (2%)
Hemorrhage	1 (2%)	2 (4%)	3 (6%)	1 (2%)
Inflammation, Chronic Active				1 (2%)
Endometrium, Hyperplasia, Cystic	3 (6%)	3 (6%)	8 (16%)	5 (10%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Erythroid Cell, Hyperplasia	1 (2%)	3 (6%)	4 (8%)	1 (2%)

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Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	16 PPM	32 PPM	64 PPM
Lymph Node	(4)	(0)	(3)	(3)
Deep Cervical, Angiectasis				1 (33%)
Pancreatic, Angiectasis			1 (33%)	
Lymph Node, Bronchial	(4)	(2)	(4)	(10)
Angiectasis			1 (25%)	1 (10%)
Hyperplasia, Lymphoid				2 (20%)
Lymph Node, Mediastinal	(29)	(27)	(30)	(25)
Angiectasis			1 (3%)	
Hyperplasia, Lymphoid			1 (3%)	
Infiltration Cellular, Histiocyte	1 (3%)	1 (4%)		
Lymph Node, Mesenteric	(49)	(50)	(49)	(50)
Angiectasis	1 (2%)	1 (2%)		1 (2%)
Hemorrhage		1 (2%)		
Hyperplasia, Lymphoid	2 (4%)			
Infiltration Cellular, Histiocyte	9 (18%)	9 (18%)	3 (6%)	4 (8%)
Spleen	(50)	(50)	(50)	(49)
Accessory Spleen	1 (2%)			
Hematopoietic Cell Proliferation	21 (42%)	26 (52%)	22 (44%)	17 (35%)
Hemorrhage, Chronic	1 (2%)			1 (2%)
Capsule, Fibrosis		1 (2%)		1 (2%)
Thymus	(46)	(45)	(47)	(48)
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(50)
Galactoceles	2 (4%)	1 (2%)	2 (4%)	1 (2%)
Hyperplasia	1 (2%)			
Inflammation, Chronic Active	1 (2%)			
Epithelium, Hyperplasia			1 (2%)	1 (2%)
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion	1 (2%)			1 (2%)
Inflammation, Granulomatous				1 (2%)
Ulcer	1 (2%)	1 (2%)	1 (2%)	
Subcutaneous Tissue, Hemorrhage				1 (2%)
Subcutaneous Tissue, Inflammation	1 (2%)			
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Hyperostosis		1 (2%)		

a - Number of animals examined microscopically at site and number of animals with lesion

TDMS No. 97008 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

PROPARGYL ALCOHOL

CAS Number: 107-19-7

Pathologist: HARBO, S. - LIEUALLEN, W.

Date Report Requested: 08/09/2006

Time Report Requested: 14:01:40

First Dose M/F: 10/01/01 / 10/01/01

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	16 PPM	32 PPM	64 PPM
Nasal, Inflammation, Chronic Active				1 (2%)
Skeletal Muscle	(2)	(0)	(1)	(0)
Fat, Necrosis	1 (50%)			
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Compression	6 (12%)	11 (22%)	4 (8%)	9 (18%)
Hemorrhage	2 (4%)			2 (4%)
Inflammation, Suppurative				1 (2%)
Inflammation, Chronic Active	1 (2%)			
Necrosis				1 (2%)
RESPIRATORY SYSTEM				
Larynx	(50)	(50)	(50)	(50)
Foreign Body	2 (4%)	3 (6%)	2 (4%)	6 (12%)
Inflammation, Chronic Active		1 (2%)		3 (6%)
Metaplasia, Squamous	1 (2%)			2 (4%)
Lung	(50)	(50)	(50)	(50)
Foreign Body				1 (2%)
Hemorrhage			1 (2%)	
Inflammation	1 (2%)			
Inflammation, Suppurative				1 (2%)
Alveolar Epithelium, Hyperplasia	7 (14%)	12 (24%)	13 (26%)	5 (10%)
Alveolar Epithelium, Metaplasia, Squamous			1 (2%)	
Alveolus, Infiltration Cellular, Histiocyte	3 (6%)	3 (6%)	1 (2%)	2 (4%)
Nose	(49)	(49)	(50)	(50)
Foreign Body	1 (2%)	4 (8%)	4 (8%)	6 (12%)
Inflammation, Suppurative			1 (2%)	
Inflammation, Chronic Active	7 (14%)	9 (18%)	11 (22%)	18 (36%)
Epithelium, Nasolacrimal Duct, Hyperplasia	1 (2%)			
Glands, Olfactory Epithelium, Hyperplasia		6 (12%)	1 (2%)	2 (4%)
Glands, Respiratory Epithelium, Hyperplasia	2 (4%)	33 (67%)	44 (88%)	47 (94%)
Nasolacrimal Duct, Inflammation, Chronic Active	3 (6%)	1 (2%)		
Olfactory Epithelium, Accumulation, Hyaline Droplet	6 (12%)	5 (10%)	6 (12%)	15 (30%)
Olfactory Epithelium, Atrophy	3 (6%)		28 (56%)	37 (74%)
Olfactory Epithelium, Degeneration			1 (2%)	4 (8%)

a - Number of animals examined microscopically at site and number of animals with lesion

TDMS No. 97008 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

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FISCHER 344 RATS FEMALE	CONTROL	16 PPM	32 PPM	64 PPM
Olfactory Epithelium, Hyperplasia				1 (2%)
Olfactory Epithelium, Hyperplasia, Basal Cell		28 (57%)	42 (84%)	48 (96%)
Olfactory Epithelium, Metaplasia, Respiratory	3 (6%)	2 (4%)	7 (14%)	17 (34%)
Olfactory Epithelium, Metaplasia, Squamous				1 (2%)
Olfactory Epithelium, Necrosis			2 (4%)	5 (10%)
Respiratory Epithelium, Hyperplasia	2 (4%)	23 (47%)	25 (50%)	36 (72%)
Respiratory Epithelium, Metaplasia, Squamous		1 (2%)		4 (8%)
SPECIAL SENSES SYSTEM				
Eye	(49)	(50)	(50)	(50)
Inflammation, Suppurative	1 (2%)			
Lens, Cataract	4 (8%)	5 (10%)	8 (16%)	3 (6%)
Zymbal's Gland	(0)	(0)	(2)	(1)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(49)
Infarct	1 (2%)	1 (2%)		1 (2%)
Inflammation, Suppurative				1 (2%)
Nephropathy, Chronic	40 (80%)	46 (92%)	41 (82%)	44 (90%)
Bilateral, Hydronephrosis			1 (2%)	
Pelvis, Transitional Epithelium, Hyperplasia			1 (2%)	
Urinary Bladder	(49)	(50)	(50)	(49)

\*\*\* END OF REPORT \*\*\*